

1 ABSTRACT OF THE DISCLOSURE

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3 The invention provides a method and system for scheduling tasks in an MP
4 system, and provides parallel execution of those tasks while implicitly synchronizing ac-
5 cess to resources used by that system. Tasks in the system are each assigned to a sched-
6 uling domain, thus associating those tasks with a set of resources controlled by that do-
7 main. A scheduler operating at each processor implicitly synchronizes those resources
8 controlled by each domain, by scheduling only one task for each domain to execute con-
9 currently in the system. Because each instance of the scheduler selects which task is next
10 run independently of its processor, each domain can migrate from one processor to an-
11 other; thus, each domain can have a task executing on any processor, so long as no do-
12 main has two tasks executing concurrently in the system. Thus, domains are not bound to
13 any particular processor. Hence the method and system are symmetric.